

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A motor with a rotation detecting device, comprising:
a rotary shaft;
a yoke in a bottomed cylindrical shape which rotatably supports one end of the rotary shaft and attaches permanent magnets on its inner peripheral surface;
a casing with a bottomed cylindrical part which is connected to the open end of the yoke and rotatably contains the other end of said rotary shaft; and
a rotation detecting device which detects rotation of said rotary shaft, wherein the rotation detecting device is supported by a sensor holder, the sensor holder is provided with an outer electrical connecting portion and is disposed in the casing by insertion into a sensor holder receiving part formed in the casing from the same direction as an incorporating direction of the rotary shaft into the bottomed cylindrical part, and the casing is provided with an electrical connecting opening part from and right under which the outer electric connecting portion of the sensor holder which has been inserted into the sensor holder receiving part is seen and which is positioned orthogonal to the insertion direction of the sensor holder, whereby an electrical connection for the sensor holder is made from the electrical connecting opening part.
2. (Previously Presented) The motor with a rotation detecting device according to claim 1, further comprising the sensor holder receiving part formed on the inner peripheral surface of the bottomed cylindrical part of the casing, and the sensor holder is removably seated in said sensor holder receiving part.

3. (Previously Presented) The motor with a rotation detecting device according to claim 1, wherein the sensor holder comprises a sensor support part in which the rotation detecting device is incorporated and a terminal support part in which a connecting terminal thereof is incorporated, respectively formed in the sensor holder, wherein the electrical connecting opening part, enabling seeing the terminal support part and the outer electric connecting portion from outside of the casing, is formed on the outer peripheral surface of the bottomed cylindrical part of the casing.

4. (Previously Presented) The motor with a rotation detecting device according to claim 1, further comprising a brush unit in which a brush is incorporated is fixed on the opening side of the bottomed cylindrical part of the casing and the sensor holder in the casing is positioned and supported by the casing on the basis of fixing the brush unit to the casing.

5. (Previously Presented) The motor with a rotation detecting device according to claim 3, further comprising a brush connecting terminal incorporated in a brush unit to extend onto and be supported by the terminal support part of the sensor holder, and which can be seen from the electrical connecting opening part of the casing.

6. (Previously Presented) The motor with a rotation detecting device according to claim 3, further comprising at least one projecting piece part which projects from the outside diameter side formed in the electrical connecting opening part of the casing.

7. (Previously Presented) The motor with a rotation detecting device according to claim 6, further comprising an external pull-out terminal unit which is electrically connected to each connecting terminal of the rotation detecting device and the brushes and is mounted into the electrical connecting opening part.

8. (Previously Presented) The motor with a rotation detecting device according to claim 7, wherein the sensor holder comprising the terminal support part that supports a terminal projecting into the electrical connecting opening part and the terminal support part

is received on a support piece part which is formed on a top surface side of the bottomed cylindrical part, and an incorporation load at the time of incorporating the external pull-out terminal unit to the terminal support part is received by the support piece part.

9. (Previously Presented) The motor with a rotation detecting device according to claim 7, further comprising at least one engaging claw formed on an insertion side of the external pull-out terminal unit, and the engaging claw is engaged with a step-like engagement receiving part, which is formed on an interior surface of the electrical connecting opening part, when the external pull-out terminal unit is inserted into the connecting opening part.

10. (Previously Presented) The motor with a rotation detecting device according to claim 9, wherein the engagement receiving part is formed integrally when the casing is molded.

11. (Previously Presented) The motor with a rotation detecting device according to claim 2, further comprising:

a sensor support part in which the rotation detecting device is incorporated and a terminal support part in which a connecting terminal thereof is incorporated formed in the sensor holder, wherein the electrical connecting opening part, enabling seeing the terminal support part from the outside, is formed on the peripheral surface of the bottomed cylindrical part of the casing.

12. (Previously Presented) The motor with a rotation detecting device according to claim 2, further comprising a brush unit in which a brush is incorporated is fixed on the opening side of the bottomed cylindrical part of the casing and the sensor holder in the casing is positioned and supported by the casing on the basis of fixing the brush unit to the casing.

13. (Previously Presented) The motor with a rotation detecting device according to claim 3, further comprising a brush unit in which a brush is incorporated is fixed on the

opening side of the bottomed cylindrical part of the casing and the sensor holder in the casing is positioned and supported by the casing on the basis of fixing the brush unit to the casing.

14. (Previously Presented) The motor with a rotation detecting device according to claim 4, further comprising a brush connecting terminal incorporated in the brush unit to extend onto and be supported by the terminal support part of the sensor holder, and can be seen from the electrical connecting opening part of the casing.

15. (Previously Presented) The motor with a rotation detecting device according to claim 5, further comprising at least one projecting piece part which projects toward the outside diameter side formed in the electrical connecting opening part of the casing.

16. (Previously Presented) The motor with a rotation detecting device according to claim 3, wherein the terminal of the terminal support part is supported in the state of projecting in the outside diameter direction of the bottomed cylindrical part, and a support piece part which supports the terminal support part of the sensor holder is formed on a top surface of the bottomed cylindrical part, and an incorporation load at the time of incorporating the external pull-out terminal unit to the terminal support part is received by the support piece part.

17. (Previously Presented) The motor with a rotation detecting device according to claim 5, wherein the terminal of the terminal support part is supported in the state of projecting in the outside diameter direction of the bottomed cylindrical part, and a support piece part which supports the terminal support part of the sensor holder is formed on a top surface of the bottomed cylindrical part, and an incorporation load at the time of incorporating the external pull-out terminal unit to the terminal support part is received by the support piece part.

18. (Previously Presented) The motor with a rotation detecting device according to claim 6, wherein the terminal of the terminal support part is supported in the state of

projecting in the outside diameter direction of the bottomed cylindrical part, and a support piece part on the channel back side which supports the terminal support part of the sensor holder is formed on a top surface of the bottomed cylindrical part, and an incorporation load at the time of incorporating the external pull-out terminal unit to the terminal support part is received by the support piece part.

19. (Previously Presented) The motor with a rotation detecting device according to claim 7, further comprising at least one engaging claw formed on the incorporating tip side in the external pull-out terminal unit, and said engaging claw is engaged with a step-like engagement receiving part which is formed to the connecting opening part when the external pull-out terminal unit is incorporated in the electrical connecting opening part.

20. (Previously Presented) The motor with a rotation detecting device according to claim 8, further comprising at least one engaging claw formed on the incorporating tip side in the external pull-out terminal unit, and said engaging claw is engaged with a step-like engagement receiving part which is formed to the connecting opening part when the external pull-out terminal unit is incorporated in the electrical connecting opening part.